

man journals reports are given of analyses of the Fray Bentos bone meal, by Hulwa, by Klocker, and by Peters, the results of which are nearly alike, and show the percentage of moisture to be about 41; nitrogen 54, and phosphoric acid, 24 to 25; and the Fray Bentos guano, by Hulwa, to be dried and pulverized flesh, connective tissue, blood, &c., with some bone, is a yellowish white, powdery material with a guano-like odor. It contains considerable quantities of phosphoric acid, which exists in the form of ammonia, and likewise of nitrogenous acid, a small portion of which is soluble. Analyses by the above-named chemists give the following per centages: Moisture, about 71; nitrogen, 64 to 74; phosphoric acid, 24 to 25. These analyses of different samples indicate that the Fray Bentos fertilizer contains little moisture, and sufficiently large quantities of nitrogen and phosphoric acid to make them very valuable. The value of these is indicated, in importance, by the fact that they are indicated, in fact, that, in 1873, the amount furnished to the European market from the Fray Bentos Most Extensive

member, articles which eulogize upon Judge Curtis were delivered by Richard H. Dana, Jr., and the Rev. Chandler Robbins. A committal service was then presented from the Rev. John C. Major, on the occasion of the death of his brother-in-law the 14th century, in which the authenticity of their discoveries was maintained. A full-length portrait of Washington, recently copied for the Society by the artist, John W. Smith, of the Earl of Albemarle, was exhibited at the meeting.

**SAN FRANCISCO: ACADEMY OF SCIENCE, Oct. 5.**—A paper was read by Dr. J. G. Cooper of the Geological Survey on the State of California during the Pliocene epoch, accompanied by a map, showing the portions of the country then under water. According to this communication the Gulf of California extended far beyond its present limits into the southern portion of the State, and the valleys of the San Joaquin and Sacramento formed a great inland sea. The peninsula of San Francisco was cut up into islands, and the great basin of the bay was a shallow lagoon. The climate was then tropical, as shown by the fossil vegetation and

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